

METHOD FOR MONITORING AUTHENTICATION PERFORMANCE  
IN WIRELESS COMMUNICATION NETWORKS

ABSTRACT OF THE DISCLOSURE

5 A method for monitoring network authentication performance  
in wireless communication systems is disclosed, whereby a  
standardized message will be used to enable external reporting  
of a selection of (or all) successful Global Challenges. A  
network operator can select which Global Challenge results are  
to be reported, based on one or more factors such as, for  
10 example: subscriber number series (i.e., if a subscriber's  
number is within a predetermined range, then a successful Global  
Challenge can be reported); predetermined periodicity (i.e., the  
 $n^{\text{th}}$  successful Global Challenge for a subscriber or MSC/VLR can  
be reported); access type (i.e., a successful Global Challenge  
15 for a Registration request, Originating Calls, Terminating  
Calls, and/or Originating Short Messages can be reported), etc.